

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/926,499	03/26/2002	Yasuji Hiramatsu	215899US2PCT	6654
22850	7590 05/11/2006		EXAMINER	
OBLON, SI	PIVAK, MCCLELLAN	RHEE, JANE J		
1940 DUKE ALEXANDE	STREET RIA, VA 22314			PAPER NUMBER
	, ···· ·		1745	*
	•		DATE MAILED: 05/11/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Y	
<u> </u>	Application No.	Applicant(s)	
	09/926,499	HIRAMATSU ET AL.	
Office Action Summary	Examiner	Art Unit	
	Jane Rhee	1745	
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with th	ne correspondence address	
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period v - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICAT 36(a). In no event, however, may a reply b will apply and will expire SIX (6) MONTHS for a cause the application to become ABANDO	ION. e timely filed from the mailing date of this communication. DNED (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on 17 Au	ugust 2004.		
· · · ·	action is non-final.		
3) Since this application is in condition for allowar	nce except for formal matters,	prosecution as to the merits is	
closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 11	, 453 O.G. 213.	
Disposition of Claims		·	
4)⊠ Claim(s) <u>2,3 and 5-10</u> is/are pending in the app	olication.		
4a) Of the above claim(s) is/are withdraw			
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>2,3 and 5-10</u> is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction and/or	r election requirement.		
Application Papers		•	
9) The specification is objected to by the Examine	r		
10) The drawing(s) filed on is/are: a) acce		ne Evaminer	
Applicant may not request that any objection to the	• • •		
Replacement drawing sheet(s) including the correct	• • • •		
11) The oath or declaration is objected to by the Ex			
· ·			
Priority under 35 U.S.C. § 119			
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priori 	s have been received. s have been received in Applic	cation No	
application from the International Bureau	ı (PCT Rule 17.2(a)).	4 2	
* See the attached detailed Office action for a list	of the certified copies not rece	eived.	
· .			
	,		
Attachment(s)			
) Notice of References Cited (PTO-892)	4) Interview Summ		
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Ma		
B) ☑ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 1/31/05,11/08/04, ৪/11 ্ব, গাঁটা তথ্	6) Other:	al Patent Application (PTO-152)	

Art Unit: 1745

DETAILED ACTION

Rejections Repeated

1. The 35 U.S.C. 102(e) rejection of claims 2-3,5-10 anticipated by Ohashi has been repeated for the reasons previously made in office action 2/17/2004.

Response to Arguments

2. Applicant's arguments filed 8/17/2004 have been fully considered but they are not persuasive.

In response to applicant's argument that Ohashi et al. fail to disclose a substrate with the claimed leakage quantity but discloses a leakage quantity at a joined portion with a substrate and not of the substrate itself, Ohashi et al. teaches in figure 2b that aluminum nitride ceramic substrate 1 and aluminum nitride ceramic substrate 2 are joined together by a joining agent 5 which when the aluminum nitride ceramic substrates melts to join each other comprise 80%wt of the joining agent. The joined bodies of Ohashi et al.'s were subjected to a He leakage test providing a leakage quantity of 1.33 X 10^-10 Pa m^3/sec (col. 10 line 59 teaches 1X10^-8 torr liter/sec which is converted to Pa m^3/sec as follows, 1 X 10^-8 torr liter/sec X 133 Pa/torr X m^3/1000L = 1.33 X 10^-10 Pa m^3/sec). Since all three layers comprise aluminum nitride ceramic substrate, Ohashi et al. teaches that the aluminum nitride ceramic substrate desired by the applicant, it is inherent that the aluminum nitride ceramic substrate comprises a leakage quantity of 1.33 X 10^-10 Pa m^3/sec.

Art Unit: 1745

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jane Rhee whose telephone number is 571-272-1499. The examiner can normally be reached on M-F 9-6.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick Ryan can be reached on 571-272-1292. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 09/926,499

Art Unit: 1745

Page 4

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Jane Rhee May 4,2006 PATRICK JOSEPH RYAN
SUPERVISORY PATENT EXAMINER